Application No.10/693,730

Reply to Office Action

AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A process for the offset printing of a receiving medium with a functional pattern comprising in any order the steps of: applying a printing ink to a printing plate and wetting said printing plate with an aqueous a fountain medium comprising between 50% by weight and 100% by weight of water, said fountain medium further comprising as a solution or a dispersion which comprises at least one moiety having at least coloring, pH-indicating, whitening, fluorescent, phosphorescent, X-ray phosphor or conductive properties.
- 2. (Previously Presented) The process according to claim 1, wherein said moiety having at least coloring, whitening, fluorescent, phosphorescent, X-ray phosphor or conductive properties is an intrinsically conductive polymer.
- 3. (Previously Presented) The process according to claim 2, wherein said intrinsically conductive polymer is selected from the group consisting of polyanilines, polyaniline derivatives, polypyrroles, polypyrrole derivatives, polythiophenes and polythiophene derivatives.
- 4. (Currently Amended) The process according to claim 2, wherein said <u>intrinsically</u> conductive polymer is a polymer or copolymer of a 3,4-dialkoxythiophene in which the two alkoxy groups may be the same or different or together represent an optionally substituted oxy-alkylene-oxy bridge.
- 5. (Previously Presented) The process according to claim 2, wherein said intrinsically conductive polymer is selected from the group consisting of: homopolymers of (3,4-methylenedioxy-thiophene), (3,4-methylenedioxythiophene) derivatives, (3,4-ethylenedioxythiophene) derivatives, (3,4-propylenedioxythiophene), (3,4-(propylenedioxythiophene) derivatives, (3,4-butylenedioxythiophene) and (3,4-butylenedioxythiophene) derivatives and copolymers thereof.

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- 6. (Previously Presented) The process according to claim 1, wherein said aqueous fountain medium further comprises a polyanion.
- 7. (Previously Presented) The process according to claim 6, wherein said polyanion is poly(styrenesulfonate).
- 8. (Previously Presented) The process according to claim 1, wherein said aqueous fountain medium further comprises a di- or polyhydroxy- and/or carboxy groups or amide or lactam group containing organic compound.
- 9. (Previously Presented) The process according to claim 8, wherein said di- or polyhydroxy- and/or carboxy groups or amide or lactam group containing organic compound is selected from the group consisting of 1,2-propandiol, propylene glycol, diethylene glycol, N-methyl pyrrolidinone and di(ethylene glycol)ethyl ether acetate.
- 10. (Previously Presented) The process according to claim 8, wherein said process further comprises heating said receiving medium within 10 minutes after printing to a temperature of 100 to 250°C.
- (Previously Presented) The process according to claim 1, wherein said aqueous fountain medium further contains an aprotic organic compound with a dielectric constant ≥
 15.
- 12. (Previously Presented) The process according to claim 11, wherein said process further comprises heating said receiving medium within 10 minutes after printing to a temperature of ≤ 150 °C.
- 13. (Previously Presented) The process according to claim 1, wherein said aqueous fountain medium further comprises a non-ionic or anionic surfactant.

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- 14. (Previously Presented) The process according to claim 1, wherein said aqueous fountain medium has a viscosity at 25°C after stirring to constant viscosity of 30 mPa.s as measured according to DIN 53211.
- 15. (Previously Presented) The process according to claim 1, wherein said aqueous fountain medium comprises a dye and/or a pigment such that the color tone of the ink and color tone of the aqueous fountain medium cannot be distinguished by the human eye when applied onto a receiving medium.
- 16. (Previously Presented) The process according to claim 1, wherein said printing lnk comprises a dye and/or a pigment such that the color tone of the ink and color tone of the aqueous fountain medium cannot be distinguished by the human eye when applied onto a receiving medium.

This listing of claims replaces all prior versions, and listings, of claims in the application.